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[... field replacement in a multi-layered switched network element using a control field/signal for ... - all 3 versions »](#)

S Muller, L Yeung, A Hendel... - US Patent 6,128,666, 2000 - Google Patents

... The search engine searches a database maintained on the **switch** element to ... selectively

replaces the corresponding fields, eg, DA field or **VLAN** tag field ... Page 2. ...

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[VLAN frame format - all 5 versions »](#)

PJ Frantz, GO Thompson - US Patent 5,959,990, 1999 - Google Patents

... frame the virtual local area network (**VLAN**) associated with ... such as a bridge or network

switch, oper -ating at ... sublayer of the Data Link **layer** (**layer 2**) of the ...

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[Search engine architecture for a high performance multi-layer switch element - all 3 versions »](#)

S Muller, A Hendel, L Yeung... - US Patent 5,938,736, 1999 - Google Patents

... topology to form a multi-layer **switch** as described ... verifying incoming Ethernet packets,

(2) modifying packet ... forwarding decisions from the **switch** fabric block ...

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[... of mac data flows through pre-established path between ingress and egress switch to reduce number ... - all 3 versions »](#)

D Belser, R Bussiere, J Cioli, B Fee, WT Haggerty - US Patent 6,151,324, 2000 - Google Patents

... US Patent Nov. 21, 2000 Sheet 2 of 11 6,151,324 VIRTUAL PATH ... 30 VIRTUAL CIRCUIT OUTPORT

AND OUTHEADER ON EGRESS **SWITCH** 31 32 33 34 DA SA ETHER TYPE **VLAN** ID ...

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[Layer 3 switch unicast protocol - all 3 versions »](#)

P Khabardar, NW Finn... - US Patent 6,049,834, 2000 - Google Patents

... SA DA **VLAN** SC (DENY) IP-SA/IP-DAAAG/IP_PORT PORT Description ... of the data 28 is not

generally of interest to a **switch** operating on the **layer 2** MAC addresses ...

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[Derived VLAN mapping technique - all 4 versions »](#)

R Kloth... - US Patent 6,208,649, 2001 - Google Patents

... DERIVED **VLAN** MAPPING TECHNIQUE ... enables **control** of broadcast domains by a **switch** capable

of ... The data link **layer** (ie, "**layer 2**") is responsible for transmission ...

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Authenticated VLANs: Secure network access at layer 2.

Hayes, J; Thomas, J

Alcatel Telecommunications Review , pp. 280-286. 4th Quarter, 2002

Security experts around the world are recommending a layered approach to information security. A layered defense is based on the assumption that a breach in one layer does not compromise the entire system. Most of today's networks are secured by a perimeter defense only. Authenticated VLAN technology gives organizations the ability to implement security starting at the network ingress point-the switch port. The Alcatel OmniSwitch family secures access to the switch port and layer two WAN and controls communications between LAN subnets and layer four services. Alcatel's A-VLAN feature allows an organization to require user-based login at the port and VLAN prior to granting the user general network access. VLANs increase network security without compromising performance, streamline network administration, provide a network usage record, segment the network into more manageable entities, supply a level of single sign-on, introduce redundancy into the authentication and can provision management between multiple controlling entities. This paper discusses VLAN technology and the associated features and benefits.

② **Descriptors:** Computer networks; Switching theory; Layers; Local area networks; Switches; Defense; Organizations; Technologies; Systems; Management; Records; Communication; Segments; Services; Telecommunication; Performance; Processes



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